

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 16 JUN 2005

To:

see form PCT/ISA/220

20/09

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/EP2005/002889

International filing date (day/month/year)
17.03.2005

Priority date (day/month/year)
18.03.2004

International Patent Classification (IPC) or both national classification and IPC
C08J3/00, C08J3/20, C08J3/22, C08K3/02, C08K3/04, C08L79/02, H01L51/30

Applicant
ORMECON GMBH

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2005/002889

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/EP2005/002889

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
Industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	
	No: Claims	1-25
Inventive step (IS)	Yes: Claims	
	No: Claims	1-25
Industrial applicability (IA)	Yes: Claims	1-25
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

1. Reference is made to the following documents:

- D1: US 2004/021131 A1 (BLANCHET-FINCHER GRACIELA BEATRIZ ET AL) 5 February 2004 (2004-02-05)
- D2: WO 02/074534 A (EASTMAN CHEMICAL COMPANY) 26 September 2002 (2002-09-26)
- D3: WO 89/02155 A (ZIPPERLING KESSLER & CO) 9 March 1989 (1989-03-09)
- D4: US-A-4 959 180 (ARMES ET AL) 25 September 1990 (1990-09-25)
- D5: KIEBOOMS R ET AL: "SYNTHESIS, ELECTRICAL, AND OPTICAL PROPERTIES OF CONJUGATED POLYMERS" HANDBOOK OF ADVANCED ELECTRONIC AND PHOTONIC MATERIALS AND DEVICES, vol. 8, 2001, pages 1-102, XP001029240
- D6: P.NOVAK, K.MÜLLER, K.S.V.SANTHANAM, O.HAAS: "Electrochemically active polymers for rechargeable batteries" CHEMICAL REVIEWS, vol. 97, 1997, pages 207-281, XP002330853
- D7: WO 2004/029133 A (E.I. DU PONT DE NEMOURS AND COMPANY) 8 April 2004 (2004-04-08)
- D8: WO 2004/029128 A (E.I. DU PONT DE NEMOURS AND COMPANY) 8 April 2004 (2004-04-08)

2. The term "ambient conditions" in claim 13 is vague and unclear and leaves the reader in doubt as to the meaning of the technical features to which they refer, thereby rendering the definition of the subject-matter of said claim 13 unclear. The Applicant should clarify what is to be understood by the term "ambient conditions".

3. The subject-matter of claims 1-25 is not new in the sense of Article 33(2) PCT.

3.1 D1 (examples 22-34; claims 1-8) discloses mixtures of colloidal polyaniline and carbon nanotubes, as well as their use in electronic applications (D1, claims 13-15).

**WRITTEN OPINION OF THE
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AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/EP2005/002889

- 3.2 D2 (claims 13,15; page 7, line 11 - page 8, line 5; page 11, lines 15-17) discloses mixtures of polyaniline and carbon black. The materials are used as electrostatic dissipators.
- 3.3 D3 (example 12) discloses a mixture of polyaniline dispersion and carbon black.
4. Since the Applicant has not provided information concerning the contribution to the existing state of the art of eventual remaining novel subject-matter, inventive step of such subject-matter cannot be accepted. The subject-matter of claims 1-25 is thus considered as an obvious alternative of the subject-matter disclosed in documents D1-D4.
The present application therefore cannot be considered as involving an inventive step (Article 33(3) PCT).